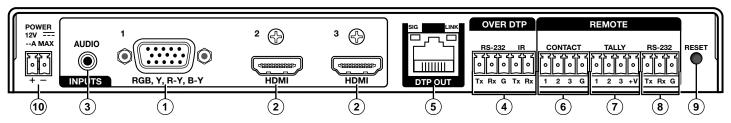


DTP T USW 233 • Setup Guide

This guide provides instructions for an experienced installer to set up and operate the Extron DTP T USW 233 switching video transmitter. The DTP T USW 233 transmitter switches among an analog video and two digital (HDMI) video inputs and, paired with a compatible receiver, can extend the selected signal up to 230 feet (70 m). If the selected input is HDMI, the extended video signal is HDCP-compliant.





Installation

Step 1 - Mounting

Turn off or disconnect all equipment power sources and mount the transmitter as required.

Step 2 — Making Connections

Inputs

- (1) Input 1 (RGB) connector Connect a VGA cable between this port and the VGA output port of the analog video source.
- Input 2 and 3 (HDMI) connectors Connect HDMI cables between these ports and the HDMI output ports of the digital video sources.

NOTE: See the LockIt® Lacing Brackets on page 3 of this guide for to securely fasten the HDMI connectors to the transmitter.

(3) Audio input — Connect an unbalanced stereo audio source to this 3.5 mm mini stereo jack for an analog audio input.

NOTE: Audio is not embedded in the HDMI signal; it is transmitted simultaneously and is present on all inputs.

Over DTP RS-232 and IR pass-through

4 RS-232 and IR connector — To pass serial or infrared data or control signals on the Over DTP RJ-45 output, connect the controlling device to the transmitter via the RS-232 and IR captive screw connector. Connect the device to be controlled to the receiver.

DTP output to receiver

- (5) DTP RJ-45 connector Connect the transmitter DTP Out port to the DTP In port on the receiver. Extron recommends that you terminate both cable ends in accordance with the following specifications, at a minimum:
 - TIA/EIA T 568B

- CAT 6a, shielded
- 24 AWG, solid conductor

ATTENTION: Do not connect this device to a computer data or telecommunications network.

Signal LED — Lights when the unit is outputting a TMDS clock signal on the DTP output.

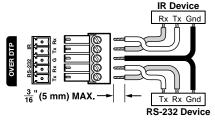
 $Link\ LED\ -\ Lights$ when a valid link is established between the units on the DTP cable.

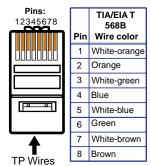
Remote control

6 Remote Contact port — If desired, for contact closure control, plug a locally-contructed contact closure control device into this 3.5 mm, 4-pole captive screw port. Momentarily short the pin for the desired input (1, 2, or 3) to G to select that input. To force an input to be always selected, leave the short in place.

NOTES:

- · Contact closure control overrides front panel input selections.
- For contact closure control, auto-input switching mode must be off (see Selecting the switch mode on the next page).





DTP T USW 233 • Setup Guide (Continued)

- Remote Tally port If desired, to remotely identify the currently selected input, plug a locally-constructed device into this 3.5 mm, 4-pole captive screw connector. Connect the power wire for the device into the +V pin and connect the ground wire for the each indicator into the corresponding tally output pin: 1, 2, or 3.
 - When an input is selected, by either contact closure or front panel selection, the corresponding tally output pin shorts to ground, closing the circuit and lighting the connected indicator (LED).
- (8) Remote RS-232 port Plug a serial RS-232 device into the switching transmitter via this rear panel 3.5 mm, 3-pole captive screw connector for remote control of the switching transmitter.

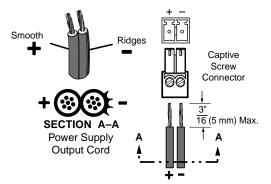
Reset button

Reset button — This button initiates two levels of reset. For different reset levels, use an Extron Tweeker or small screwdriver to press and hold the recessed button while the switcher is running or while applying power. See the DTP T USW 233 User Guide, available at www.extron.com, for details.

Power

Power connector — Connect an IEC power cord between the included 12 VDC power supply and a 100-240 VAC, 50-60 Hz source. Connect the power supply to either unit, transmitter or receiver, as shown at right. Use the included tie-wrap to strap the cord to the captive screw connector.

NOTE: Only one power supply is required. A single power supply connected to either unit in the pair powers both units. A power supply is included with the transmitter



Tx Rx Gnd

Front panel Configuration port

(1) Configuration port — Plug a PC or other controlling device into the switching transmitter via this front panel mini-USB connector for remote configuration of the switching transmitter.

Operation

Switching inputs

Select the desired input by pressing the associated input button. Observe that the LED for the selected input lights.

NOTE: The switcher must be in normal (manual) mode (see below).

Extron

CONFIG

AUTO SWITCH

Selecting the switch mode

In auto-input switching mode, the switcher selects to the highest numbered input with a sync signal present. Turn auto-input switching mode on and off as follows:

- Press and hold the Mode (Input 1) button.
- 2. Press and release the button for the desired mode:

Auto (Input 3) — The Auto Switch LED lights.

Normal (Input 2) — The Auto Switch LED goes off.

3. Release the Mode button.

Press the and HOLD the Mode button. Press and release the Auto or Normal button. Auto Switch lights (auto) or goes out (normal). Release the Mode button.

Press the button.

The LED lights green.

Locking and unlocking the front panel (Executive mode)

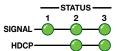
The switcher has a front panel lock feature that locks the front panel. If you try to make front panel input selections when the panel is locked, all front panel LEDs flash three times. Toggle the front panel lock on and off by pushing and holding all three Input buttons simultaneously for 5 seconds. All front panel LEDs flash three times. Release the buttons.

Press the and **HOLD** the all three Input buttons. 1 2 NORMAL AUTO

All three LEDs flash three times. Release the Input buttons.

Interpreting the Status LEDs

Signal LEDs (1 through 3) — Indicate that the switcher detects horizontal sync (Signal LED 1) or TMDS clock (Signal LED 2 and Signal LED 3) signals on the associated input.



HDCP LEDs (2 and 3) —Indicate that the corresponding input signal is HDCP encrypted.

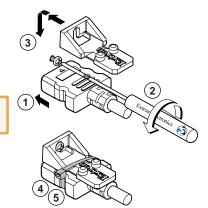
LockIt® Lacing Brackets

Use the included Locklt Lacing Brackets to securely fasten both HDMI cables as follows.

- 1. Plug the HDMI cable into the panel connection.
- 2. Loosen the HDMI connection mounting screw from the panel enough to allow the LockIt lacing bracket to be placed over it. The screw does not have to be removed.
- 3. Place the LockIt lacing bracket on the screw and against the HDMI connector, then tighten the screw to secure the bracket.

ATTENTION: Do not overtighten the HDMI connector mounting screw. The shield it fastens to is very thin and can easily be stripped.

- Loosely place the included tie wrap around the HDMI connector and the LockIt lacing bracket as shown.
- 5. While holding the connector securely against the lacing bracket, use pliers or similar tools to tighten the tie wrap, then remove any excess length.



Application Diagram

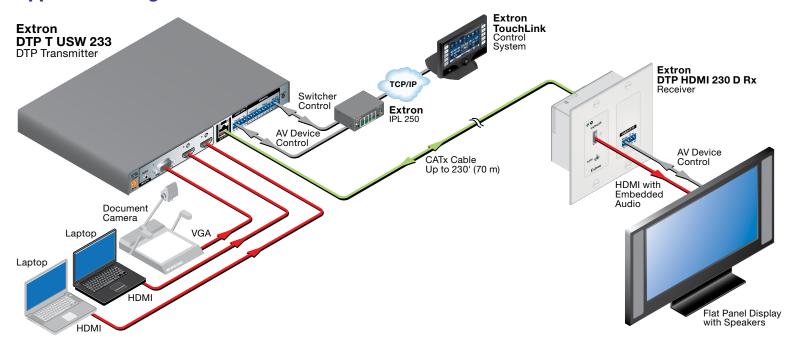


Figure 1. Typical Switching Transmitter Application

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Extron USA - West	Extron USA - East	Inside Europe Only	+65.6383.4664 FAX	+81.3.3511.7656 FAX	+86.21.3760.1566 FAX	+971.4.299.1880 FAX	+82.2.3444.1575 FAX	(Inside India Only)
+1.714.491.1500	+1.919.850.1000	+31.33.453.4040						+91.80.3055.3777
+1.714.491.1517 FAX	+1.919.850.1001 FAX	+31.33.453.4050 FAX						+91.80.3055.3737 FAX